Brosme brosme (Cusk)

Report Date: January 13, 2016

Priority 2 Species of Greatest Conservation Need (SGCN)

Class: Actinopterygii (Ray-finned Fishes)

Order: Gadiformes (Cods, Haddocks, Grenadiers)

Family: Lotidae (Hakes And Burbots)

General comments:

ESA Candidate Species - throughout its range; ESA species of Concern - Atlantic - Gulf of Maine;

General information: http://www.nmfs.noaa.gov/pr/species/fish/cusk.htm

http://www.greateratlantic.fisheries.noaa.gov/protected/pcp/soc/cusk.html

No Species Conservation Range Maps Available for Cusk

SGCN Priority Ranking - Designation Criteria:

Risk of Extirpation: NA

State Special Concern or NMFS Species of Concern:

Brosme brosme is listed as a Species of Concern by the National Marine Fisheries Service.

Recent Significant Declines:

Cusk is currently undergoing steep population declines, which has already led to, or if unchecked is likely to lead to, local extinction and/or range contraction.

Notes:

Recent significant declines:

Regional Endemic: NA

High Regional Conservation Priority:

Committee on the Status of Endangered Wildlife in Canada (COSEWIC):

Status: E, Last Examination: 11/1/2012, Change: In a higher risk category, Canada Occurence: Atlantic Ocean

High Climate Change Vulnerability: NA

Understudied rare taxa: NA

Historical: NA

Culturally Significant: NA

Habitats Assigned to Cusk:

Formation Name Subtidal

Macrogroup Name Subtidal Bedrock Bottom

Habitat System Name: Bedrock Bottom Macrogroup - Unknown Habitat System **Primary Habitat**

Macrogroup Name Subtidal Coarse Gravel Bottom

Habitat System Name: Coarse Gravel Bottom Macrogroup - Unknown Habitat System **Primary Habitat**

Macrogroup Name Subtidal Sand Bottom

Habitat System Name: Unvegetated

Stressors Assigned to Cusk:

Stressor Priority Level based on Severity and Actionability

	Moderate Severity	High Severity
Highly Actionable	Medium-High	High
Moderately Actionable	Medium	Medium-High
Actionable with Difficulty	Low	Low

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IUCN Level 1 Threat Biological Resource Use

IUCN Level 2 Threat: Fishing and Harvesting of Aquatic Resources

Severity: Moderate Severity **Actionability:** Moderately actionable

Notes: Historic heavy fishing pressure has drastically reduced cusk stocks in the Gulf of Maine and Maine waters. There

are currently no regulatory measures in place to limit commercial cusk take, however, annual landings are small

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and few fishermen report landings.

IUCN Level 1 Threat Human Intrusions and Disturbance

IUCN Level 2 Threat: Recreational Activities

Severity: Moderate Severity **Actionability:** Moderately actionable

Notes: Historic heavy fishing pressure has drastically reduced cusk stocks in the Gulf of Maine and Maine waters. There

are currently no regulatory measures in place to limit recreational cusk take (size or number). This is largely because they are caught with hook and line during trips targeting grounfish, and cusk do not survive the change

in pressure during landing, therefore catch-and-release is not a viable option.

IUCN Level 1 Threat Climate Change and Severe Weather

IUCN Level 2 Threat: Habitat Shifting or Alteration

Severity: Severe Actionability: Actionable with difficulty

Notes: As a coldwater species, changes in habitat associated with climate change and other environmental variables may

limit the ability of the population to reach its potential, and may cause shifts in range or range truncation.

IUCN Level 2 Threat: Temperature Extremes

Severity: Severe Actionability: Actionable with difficulty

Notes: As a coldwater species, changes in habitat associated with climate change and other environmental variables may

limit the ability of the population to reach its potential, and may cause shifts in range or range truncation.

IUCN Level 1 Threat Energy Production and Mining

IUCN Level 2 Threat: Oil and Gas Drilling

Severity: Moderate Severity Actionability: Actionable with difficulty

Notes: There is potential for offshore oil spills in the Gulf of Maine from tankers. The use of oil dispersants increases the

effect on groundfish and pelagic species by increasing the toxicity of oil gloubules, though the exact effects are

not well documented.

Species Level Conservation Actions Assigned to Cusk:

None. Only species specific conservation actions that address high (red) or medium-high (orange) priority stressors are summarized here.

Guild Level Conservation Actions:

This Species is currently not attributed to a guild.

Broad Taxonomic Group Conservation Actions:

Relevant conservation actions for this species are assigned within broader taxonomic groups in Maine's 2015 Wildlife Action Plan: Element 4, Table 4-1.

Habitat Based Conservation Actions:

Additional conservation actions that may benefit habitat(s) associated with this species can be found in Maine's 2015 Wildlife

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Action Plan: Element 4, Table 4-15. Click on the Habitat Grouping of interest to launch a habitat based report summarizing relevant conservation actions and associated SGCN.

The Wildlife Action Plan was developed through a lengthy participatory process with state agencies, targeted conservation partners, and the general public. The Plan is non-regulatory. The species, stressors, and voluntary conservation actions identified in the Plan complement, but do not replace, existing work programs and priorities by state agencies and partners.